



Well Name: WAAG 17  
Surface Location: WAAG MIDDLE  
North American Datum 1983 , US State Plane 1983 , Colorado Northern Zone  
Ground Elevation: 4883.0  
WELL @ 4899.0ft (Xtreme 7)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	1448136.64	3220340.14	40° 33' 38.988 N	104° 42' 25.092 W	WAAG 17

#### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	900.0	0.00	0.00	900.0	0.0	0.0	0.00	0.00	0.0	
3	1410.8	10.22	159.72	1408.1	-42.6	15.7	2.00	159.72	-8.3	
4	6104.0	10.22	159.72	6026.9	-823.4	304.3	0.00	0.00	-159.7	
5	6614.8	0.00	0.00	6535.0	-866.0	320.0	2.00	180.00	-167.9	
6	6644.8	0.00	0.00	6565.0	-866.0	320.0	0.00	0.00	-167.9	
7	7544.8	90.00	270.62	7138.0	-859.8	-252.9	10.00	270.62	395.6	
8	11993.5	90.00	270.61	7138.0	-812.0	-4701.4	0.00	0.00	4771.0	TD / PBHL WAAG MIDDLE 17

#### WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape Point
LP WAAG MIDDLE 17	7138.0	-859.8	-252.9	40° 33' 30.492 N	104° 42' 28.368 W	Point
TD / PBHL WAAG MIDDLE 17	7138.0	-812.0	-4701.4	40° 33' 30.960 N	104° 43' 26.004 W	Point



Azimuths to True North  
Magnetic North: 8.42°

Magnetic Field  
Strength: 52888.8snT  
Dip Angle: 67.08°  
Date: 8/9/2014  
Model: IGRF2010

#### FORMATION TOP DETAILS

TVD	Path	MD	Path	Formation
3610.0	3648.2			PARKMAN
4337.0	4386.9			SUSSEX
4730.0	4786.2			SHANNON
7008.0	7151.2			NIOBRARA

